

Lightweight cementitious building material

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Inventor: BUYSSE RENE FRANCOIS

Applicant: BUYSSE RENE FRANCOIS

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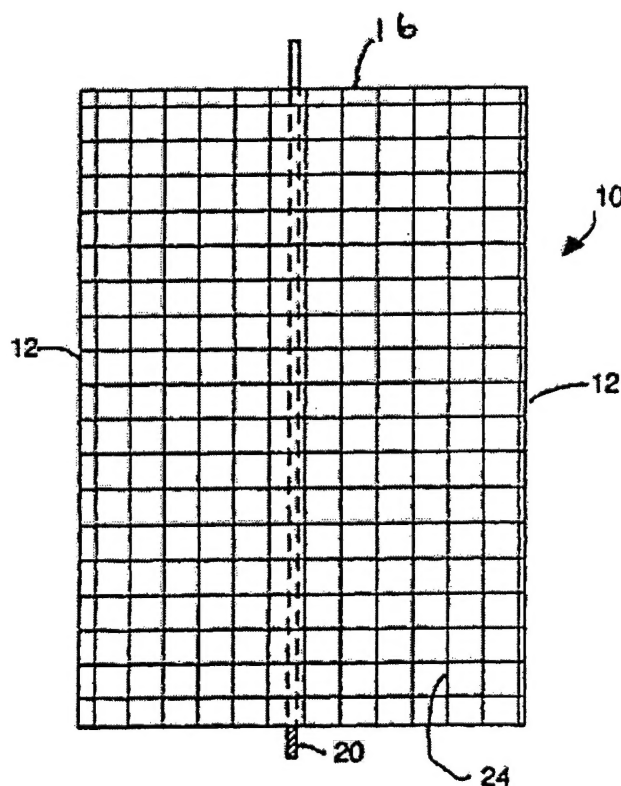
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While it is known to make lightweight cementitious products using cement, water and a lightweight filler such as expanded polystyrene, perlite, vermiculite or air bubbles, their use has been limited because of poor repeatability of obtaining homogeneous mixtures. The invention provides a lightweight cementitious mixture comprising by volume: 5 to 80 % cement, 10 to 65 % expanded polystyrene particles; 10 to 90 % expanded mineral particles; and water sufficient to make a paste with a substantially even distribution of expanded polystyrene after proper mixing. The combination of expanded polystyrene particles and expanded mineral particles, such as of perlite and/or vermiculite, surprisingly enables homogeneous, repeatable mixing to occur. Thus products with stable, expected properties can be produced for a range of structural and non-structural applications. The invention provides a lightweight cementitious mixture comprising by volume: 5 to 80 % cement, 10 to 65 % expanded polystyrene particles; 10 to 90 % expanded mineral particles; and water sufficient to make a paste with a substantially even distribution of expanded polystyrene after proper mixing. The combination of expanded polystyrene particles and expanded mineral particles, such as of perlite and/or vermiculite, enables homogeneous, repeatable mixing to occur. Thus products with stable, expected properties can be produced for a range of structural and non-structural applications.



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